

Recombinant Chicken GH (cGH)

CATALOG #: 4771-50 50 µg
4771-500 500 µg

LOT #: _____

SYNONYMS: GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone,
Growth hormone 1, Somatotropin

SOURCE: *E. coli*

PURITY: > 99 % by SDS-PAGE and HPLC

FORM: Lyophilized from 0.3 % NaHCO₃, pH 8

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O or 0.4 % NaHCO₃ adjusted to pH 8-9 to a concentration ≥ 100 µg/ml and sterile filtered. This solution can then be diluted into other aqueous buffers, preferably in the presence of carrier protein.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted recombinant chicken GH can be stored at 4°C for several weeks it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Growth Hormone Chicken Recombinant (cGH) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids with an additional Ala at its N-terminus and having a molecular mass of 22255 Dalton. GH Chicken recombinant is purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Phe-Pro-Ala

BIOLOGICAL ACTIVITY:

GH Chicken Recombinant is fully biologically active in homologous assays and in PDF-P1 3B9 cells stably transfected with rabbit GH receptors.

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